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PRODUCT ANALYSYS

Human TGF- α

Catalog Number:	IM-01
Source:	<i>E.coli</i> /Recombinant
Description:	Transforming Growth Factor- α (TGF- α) is a polypeptide growth factor that stimulates the proliferation of a wide range of epidermal and epithelial cells. TGF- α has been shown to play a role in the autocrine growth of certain transformed cells. Human TGF- α is a 5.5 kDa protein containing 50 amino acid residues.
Purity:	Greater than 98% by SDS-PAGE and HPLC analyses.
Endotoxin:	Less than 0.1 ng/ μ g (1EU/ug) of TGF- α .
Formulation:	Sterile filtered and then the protein was lyophilized with no additives.
Reconstitution:	A quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml is recommended. This solution can be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.
Stability:	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human TGF- α should be stored in working aliquots at -20°C.
Biological Activity:	The ED ₅₀ as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is \leq 0.7 ng/ml, corresponding to a specific activity of $\geq 1.4 \times 10^6$ units/mg.
Caution:	Research purpose only. Not for diagnostic or therapeutic procedure.